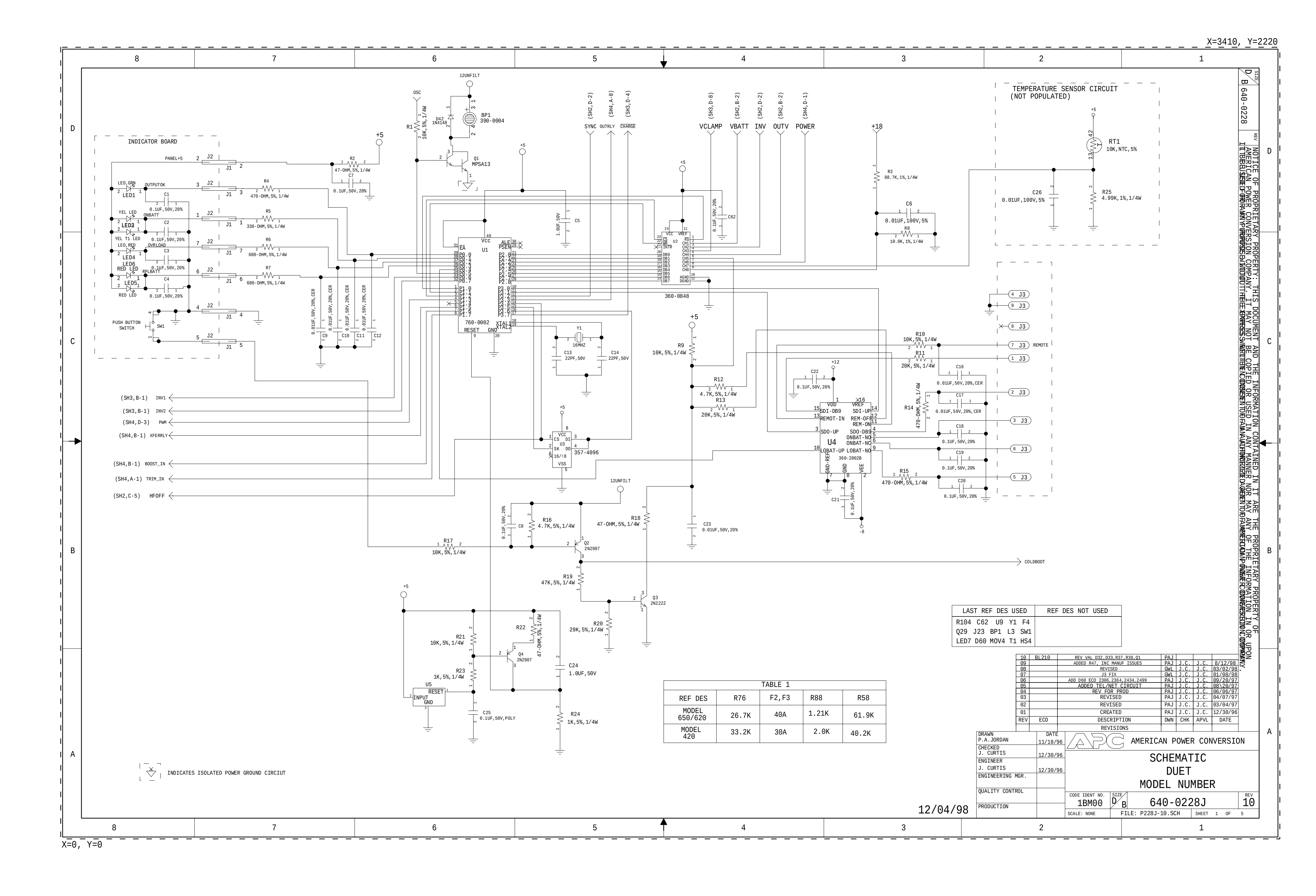


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X=3410, Y=2220
X=0, Y=0
TEMPERATURE SENSOR CIRCUIT
(NOT POPULATED)
RT1 10K,NTC,5%
C26 0.01UF,100V,5%
R25 4.99K,1%,1/4W
INDICATOR BOARD
PANEL+5
OUTPUTOK
ONBATT
OVRLOAD
RPLBATT
LED1 LED,GRN
LED2 YEL LED
LED3 YEL T1 LED
LED4 LED,RED
LED6 RED LED
LED5 RED LED
PUSH BUTTON SWITCH
SW1
R2 47-OHM,5%,1/4W
C7 0.1UF,50V,20%
R4 470-OHM,5%,1/4W
R5 330-OHM,5%,1/4W
R6 680-OHM,5%,1/4W
R7 680-OHM,5%,1/4W
C1 0.1UF,50V,20%
C2 0.1UF,50V,20%
C3 0.1UF,50V,20%
C4 0.1UF,50V,20%
C9 C10 C11 C12 0.01UF,50V,20%,CER
OSC
12UNFILT
R1 10K,5%,1/4W
D42 1N4148
BP1 390-0004
Q1 MPSA13
U1 760-0002
C5 1.0UF,50V
Y1 16MHZ
C13 22PF,50V
C14 22PF,50V
U3 357-4096
U2 360-0848
C62 0.1UF,50V,20%
SYNC OUTRLY CHARGE
(SH2,D-2) (SH4,A-8) (SH3,D-4)
VCLAMP VBATT INV OUTV POWER
(SH3,D-8) (SH2,B-2) (SH2,D-2) (SH2,B-2) (SH4,D-1)
+18
R3 88.7K,1%,1/4W
C6 0.01UF,100V,5%
R8 10.0K,1%,1/4W
(SH3,B-1) INV1
(SH3,B-1) INV2
(SH4,D-3) PWM
(SH4,B-1) XFERRLY
(SH4,B-1) BOOST_IN
(SH4,A-1) TRIM_IN
(SH2,C-5) HFOFF
R9 10K,5%,1/4W
R12 4.7K,5%,1/4W
R13 20K,5%,1/4W
C22 0.1UF,50V,20%
U4 360-2002B
C21 0.1UF,50V,20%
C23 0.01UF,50V,20%
R10 10K,5%,1/4W
R11 20K,5%,1/4W
R14 470-OHM,5%,1/4W
R15 470-OHM,5%,1/4W
C16 0.01UF,50V,20%,CER
C17 0.01UF,50V,20%,CER
C18 0.1UF,50V,20%
C19 0.1UF,50V,20%
C20 0.1UF,50V,20%
REMOTE
J3
C8 0.1UF,50V,20%
R16 4.7K,5%,1/4W
R17 10K,5%,1/4W
Q2 2N2907
R18 47-OHM,5%,1/4W
R19 47K,5%,1/4W
Q3 2N2222
R20 20K,5%,1/4W
COLDBOOT
R21 10K,5%,1/4W
R22 47-OHM,5%,1/4W
Q4 2N2907
R23 1K,5%,1/4W
U5
C24 1.0UF,50V
C25 0.1UF,50V,POLY
R24 1K,5%,1/4W
INDICATES ISOLATED POWER GROUND CIRCUIT
LAST REF DES USED | REF DES NOT USED
R104 C62 U9 Y1 F4
Q29 J23 BP1 L3 SW1
LED7 D60 MOV4 T1 HS4
TABLE 1
REF DES | R76 | F2,F3 | R88 | R58
MODEL 650/620 | 26.7K | 40A | 1.21K | 61.9K
MODEL 420 | 33.2K | 30A | 2.0K | 40.2K
10 BL210 REV VAL D32,D33,R37,R38,Q1 PAJ
09 ADDED R47, INC MANUF ISSUES PAJ J.C. J.C. 8/12/98
08 REVISED GWL J.C. J.C. 03/02/98
07 J3 FIX GWL J.C. J.C. 01/08/98
06 ADD D60 ECO 2386,2364,2434,2499 PAJ J.C. J.C. 09/20/97
05 ADDED TEL/NET CIRCUIT PAJ J.C. J.C. 08/20/97
04 REV FOR PROD PAJ J.C. J.C. 06/06/97
03 REVISED PAJ J.C. J.C. 04/07/97
02 REVISED PAJ J.C. J.C. 03/04/97
01 CREATED PAJ J.C. J.C. 12/30/96
REV ECO DESCRIPTION DWN CHK APVL DATE
REVISIONS
DRAWN P.A.JORDAN DATE 11/18/96
CHECKED J. CURTIS 12/30/96
ENGINEER J. CURTIS 12/30/96
ENGINEERING MGR.
QUALITY CONTROL
PRODUCTION
APC AMERICAN POWER CONVERSION
SCHEMATIC
DUET
MODEL NUMBER
CODE IDENT NO. 1BM00
SIZE D B
640-0228J
REV 10
SCALE: NONE
FILE: P228J-10.SCH
SHEET 1 OF 5
12/04/98